IN THE CLAIMS:

Claim 1. (Currently Amended): A water-soluble or water-dispersible polyurethane comprising a reaction product of

- a mixture of at least one polyether polyol a1) having an average A) functionality of ≥ 3 and at least one urethane group-containing polyether polyol a2) having an average functionality of ≥ 4 ,
- at least one C8-C22 monoisocyanate, B)
- at least one (cyclo)aliphatic and/or aromatic diisocyanate, C)
- optionally at least one C8-C22 monoalcohol, and D)
- optionally at least one polyisocyanate having an average functionality E) of >2

wherein component C) comprises isophorone diisocyanate and the starting NCO/OH equivalent ratio is between 0.5:1 to 1.2:1 and the polyurethane has a softening point of from 10°C to 80°C and

wherein the polyether alcohol mixture A) containing polyether a1) and the urethane group-containing polyether a2) is carried out by the partial reaction of the polyethers a1) with at least one organic isocyanate having a functionality of ≥ 2 and up to 50 mole % of the polyethers a1) are reacted with isocyanates.

- Claim 2. (Previously Presented): The polyurethane of Claim 1, wherein the polyether polyol a 1) has an average functionality of 3.
- Claim 3. (Previously Presented): The polyurethane of Claim 1, wherein the polyether polyol a1) has an average functionality of 4 to 6.
- Claim 4. (Previously Presented): The polyurethane of Claim 1, wherein component B) comprises a C10-C18 monoisocyanate.
- Claim 5. (Previously Presented): The polyurethane of Claim 1, wherein component B) comprises a C12-C18 monoisocyanate.

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- Claim 6. (Previously Presented): The polyurethane of Claim 1, wherein component C) comprises a (cyclo)aliphatic diisocyanate.
- Claim 7. (Previously Presented): The polyurethane of Claim 1, wherein component D) comprises a C₁₀-C₁₈ monoalcohol.
- Claim 8. (Previously Presented): A process for the production of a watersoluble or water-dispersible polyurethane comprising reacting
 - A) a mixture of at least one polyether polyol a1) having an average functionality of ≥ 3 and at least one urethane group-containing polyether polyol a2) having an average functionality of 4,
 - B) at least one C₆-C₂₂ monoisocyanate,
 - C) at least one (cyclo)aliphatic and/or aromatic diisocyanate,
 - D) optionally at least one C₈-C₂₂ monoalcohol, and
- E) optionally at least one polyisocyanate having a mean functionality of > 2 wherein component C) comprises isophorone diisocvanate and the starting NCO/OH equivalent ratio is between 0.5:1 to 1.2:1 and the polyurethane has a softening point of from 10°C to 80°C.
- Claim 9. (Previously Presented): The process of Claim 8, wherein the urethane group-containing polyether polyol a2) is produced by a partial reaction of the polyether polyol a1) with a diisocyanate.
- Claim 10. (Previously Presented): The process of Claim 8, wherein the urethane group-containing polyether polyol a2) is produced by a partial reaction of the polyether polyol a 1) with polyisocyanates having an average functionality of 2.
- Claim 11 (Previously Presented): A composition of matter comprising the polyurethane of Claim 1.

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Claim 12. (Previously Presented): The composition of Claim 11, wherein the composition is a thickened aqueous paint system, an adhesive or another aqueous formulation.

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